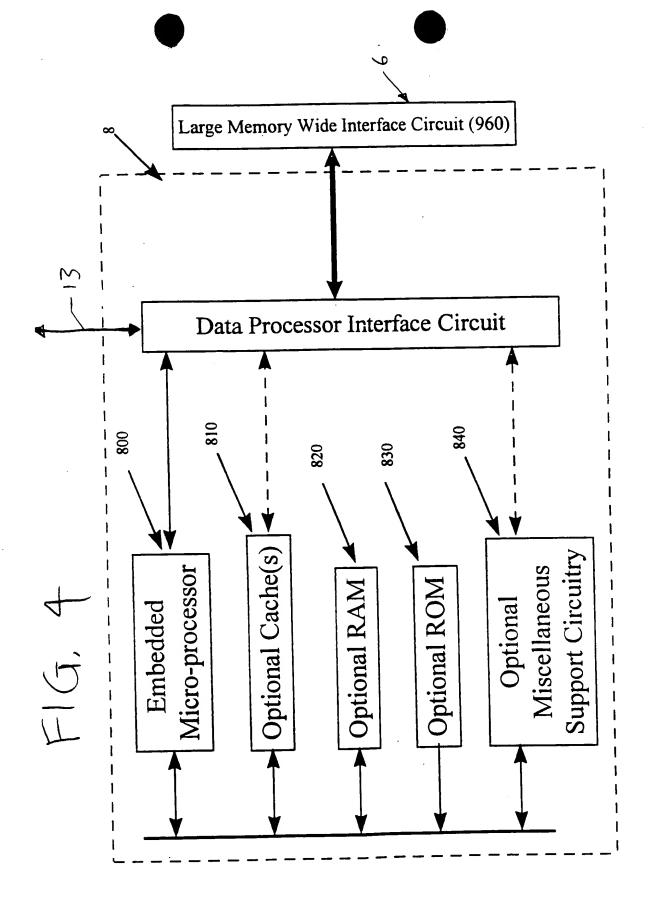


KSSTET THRESSE

F16, 3

KOBER" HHESSO



with independent external memory interfaces Figure 5: Two instances (1) in One IC (1000)

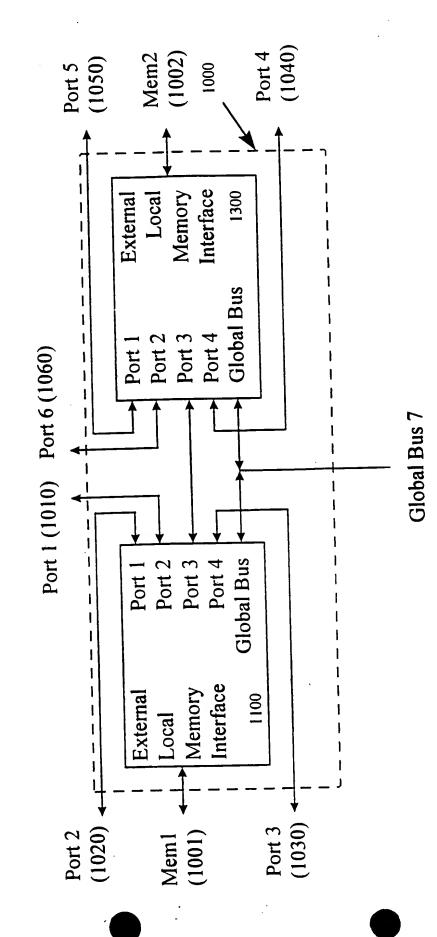


Figure 6: Two instances (1) in One IC (1000) with shared external memory interface

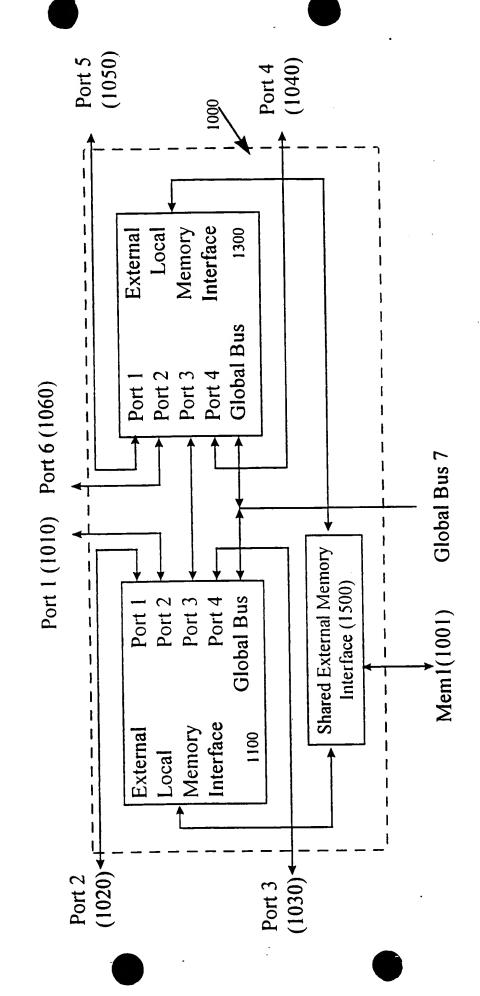


Figure 7: Four instances (1) in One IC (1000)

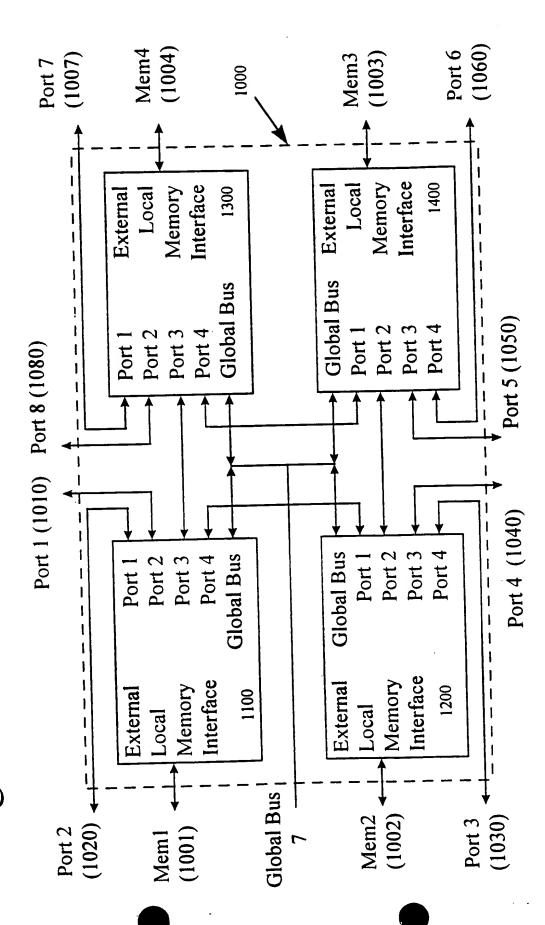
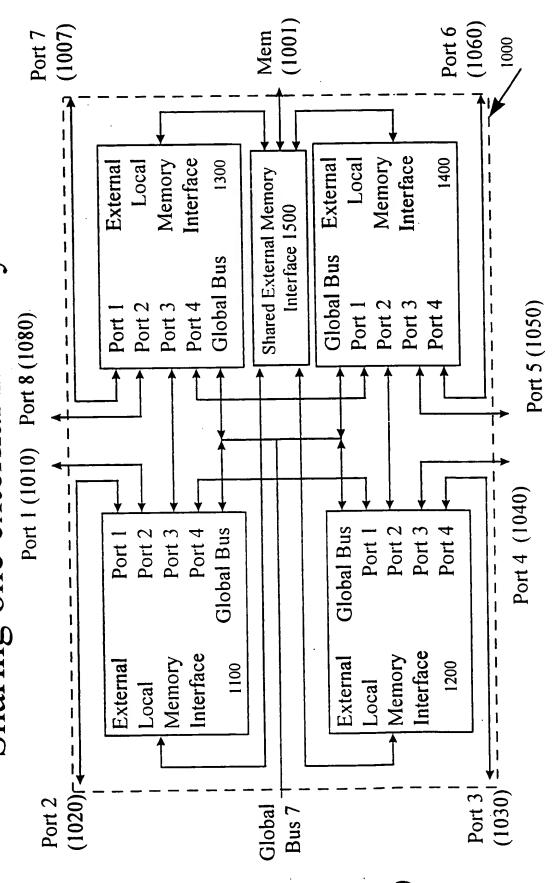
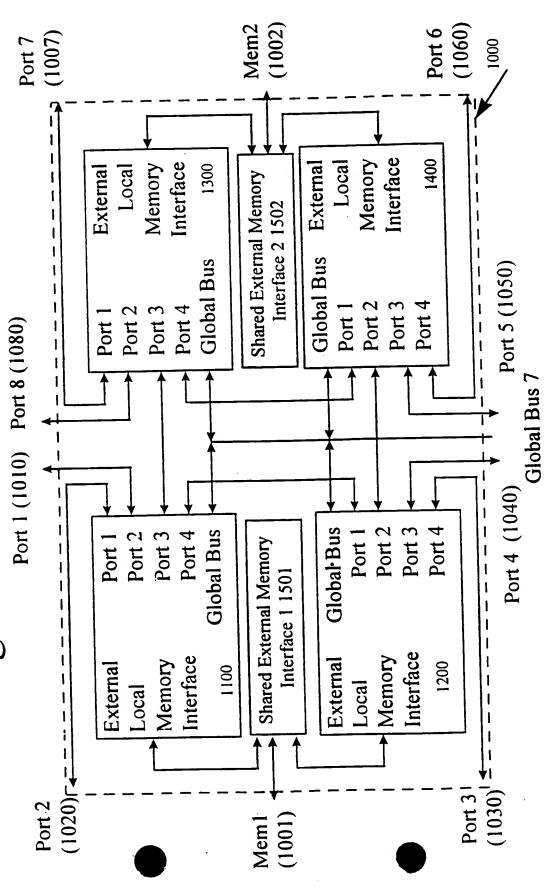


Figure 8: Four instances (1) in One IC (1000) Sharing one external memory interface

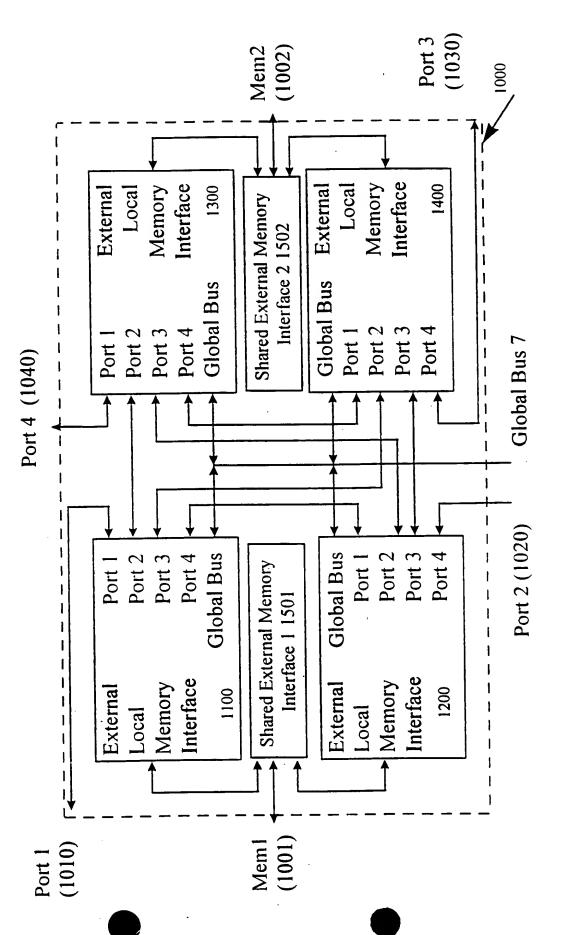


KSSTET EthtESSS

Figure 9: Four instances (1) in One IC (1000) Sharing two external memory interfaces



external memories full direct interconnect Figure 10: Four instances in IC sharing 2



KOBRE" ZhhE660

AGBTET" ENHEGGED

(2002)n Y 2110 Figure 12: 16 instances on 1 IC with 2 external memories 2112 2111 Port 3 2216 Port 4 Global Bus Port I Port 2 Port 3 Port 4 Ext. Mem Global Bus Port 1 Port 1 Port 2 Port 3 Global Bus Ext. Mem Port 1 Port 2 Global Bus Ext. Mem Ext. Mem Port 4 Port 3 Port 4 2108 2114 2115 2211 Port 1 Port 2 Port 3 Port 4 Port 1 Port 2 2210 Port 3 Global Bus Ext. Mem Ext. Mem Global Bus 2212 Port 3 Port 4 Ext. Mem Global Bus Port 1 Port 2 Port 3 Port 4 Global Bus Port 1 Port 2 Ext. Mcm 2209 2201 Global Bus Port 1 Port 2 Port 3 2206 Port 3 2208 Port 4 Port 1 Port 2 Global Bus Ext. Mem Global Bus Port 1 Port 2 Port 1 2205 Port 2 Port 3 Port 4 Global Bus Ext. Mem Ext. Mcm Ext. Mem Port 3 Port 4 2107 2116 2003 2101 202 2106 Port 2 Port 3 Port 4 Global Bus . Ext. Mem 2202 Port 3 Port 4 Port 3 Port 4 Ext. Mem Global Bus Ext. Mem Global Bus Port 1 Port 2 Global Bus Port 4 Port 1 Port 2 Ext. Mem Port 1 Port 3 Port 1 Port 2 2204 2203 2201 2103 2700 2104 2105 2102 (2001) **=** H 0 æ

CEETT THEES

Figure 13: Application PCB Module 1 of Embodiment 1, 1000 or 2000

- Overall PCB Foot print: 125mm*125mm
- Each side of printed circuit board contains:
- (4) Embodiments
- (8) Synchronous DRAM
 Modules (168 pin) with up to
 16M by 72 bits each
- Each Embodiment has 288Mbytes of RAM
- Boot ROM and other support circuitry is not diagrammed here

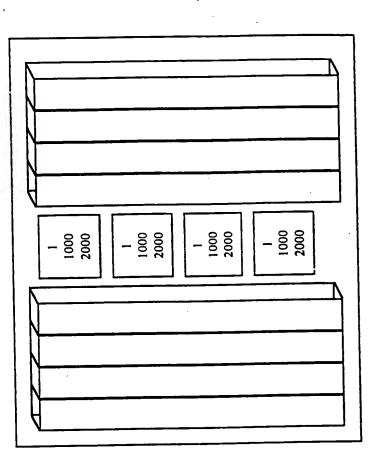


Figure 14: Application PCB Module 2 of Embodiment 1, 1000 or 2000

- Overall PCB Foot print: 125mm*150mm
- Each side of printed circuit board contains:
- (8) Embodiments
- (8) Synchronous DRAM
 Modules (168 pin) with up to
 16M by 72 bits each
- Each Embodiment has 144
 Mbytes of RAM
- Boot ROM and other support circuitry is not diagrammed here

